

NAVSEA
STANDARD ITEM

FY-04

ITEM NO: 009-11
DATE: 30 AUG 2002
CATEGORY: II

1. SCOPE:

1.1 Title: Insulation and Lagging Requirements; accomplish

2. REFERENCES:

2.1 Standard Items

2.2 MIL-STD-769, Thermal Insulation Requirements for Machinery and Piping

2.3 804-5959212, Surface Ship Machinery Insulation - Installation Details

2.4 804-5959214, Piping Insulation - Installation Details

2.5 804-5773931, Insulation for Compartments, Acoustic and Thermal
Installation Details

2.6 804-5773932, Insulation for Ducts, Acoustic and Thermal, Installation
Details

2.7 4823-C-3160935, Fasteners for Insulation and Lagging

3. REQUIREMENTS:

3.1 Install new insulation, lagging, and reusable covers in accordance
with 2.2 through 2.6, and the following:

3.1.1 Use of elastomeric foam conforming to MIL-P-15280 and
polyphosphazene conforming to MIL-I-24703 is not permitted.

3.1.2 Install Armstrong NH Armflex, K-Flex ECO, **or Electric Boat
Corporation Specification No. 4013 Anti-Sweat and Refrigerant Insulation
Systems (EB Spec. 4013)** on anti-sweat and refrigeration systems that have an
operating temperature range of minus 20 degrees to 180 degrees Fahrenheit.

3.1.2.1 **Install with adhesive conforming** to Armstrong 520 or
Rubatex 373.

3.1.2.2 Install rewettable fibrous glass cloth lagging
conforming to MIL-C-20079, Type I, Class 6 or 8, in high traffic areas.

3.1.3 Utilize Polyimide foam insulation conforming to DOD-I-24688 for piping and machinery systems other than systems listed in 3.1.2, and with a maximum operating temperature of 370 degrees Fahrenheit.

3.1.4 Accomplish the requirements of 009-12 of 2.1.

3.1.5 Accomplish the requirements of 009-32 of 2.1 for surfaces to be insulated.

3.1.6 Secure reusable covers using snap fasteners or laced with copper, brass or soft steel galvanized wire through hooks or rings in accordance with 2.7.

3.1.6.1 Stamp the surface of the lacing washers, piece 200 of 2.7, on the reusable cover with one quarter inch high letters, NO AB, located close to the outer edge of the washer and visible when the reusable cover is installed.

3.2 Accomplish the requirements of 009-32 of 2.1 for new insulation, lagging, and reusable covers to match surrounding areas.

4. NOTES:

4.1 Known source for **EB Spec.** 4013:

General Dynamics Company
Dept. 447 Material Services
Attn: K. Hamler
75 Eastern Point Road
Groton, CT 06340-4899
Tel: 860-433-2373

4.2 Known sources for rewettable fibrous glass cloth lagging:

BGF Industries, Inc.
3802 Robert Porcher Way
Greensboro, NC 27410
Tel: 800-925-1961

Alpha Associates
Two Amboy Avenue
Woodbridge, NJ 07095
Tel: 732-634-5700